



UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

25934

7590

05/14/2002

DORSEY & WHITNEY LLP 801 GRAND, SUITE 3900 DES MOINES, IA 50309 FREDMAN, JEFFREY NORMAN ,

ART UNIT CLASS-SUBCLASS

1637 435-006000

DATE MAILED: 05/14/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/574,519	05/18/2000	Eric Henderson	7164.01	8198

TITLE OF INVENTION: METHOD AND APPARATUS FOR SOLID STATE MOLECULAR ANALYSIS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	08/14/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee and provided the corrected otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 25934 7590 05/14/2002

DORSEY & WHITNEY LLP 801 GRAND, SUITE 3900 DES MOINES, IA 50309

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in an
envelope addressed to the Box Issue Fee address above, or being facsimile
transmitted to the USPTO, on the date indicated below.

datishinated to the OSI TO, on the date indicated below.	
	(Depositor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/574,519	05/18/2000	Eric Henderson ·	7164.01	8198

TITLE OF INVENTION: METHOD AND APPARATUS FOR SOLID STATE MOLECULAR ANALYSIS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$640	\$300	\$940	08/14/2002	
EXAMINER		ART UNIT	CLASS-SUBCLASS			
FREDMAN, JEFFREY NORMAN		1637	435-006000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys			
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively, (2) the name of a single firm (having as a member a registered			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.		attorney or agent) and the nar registered patent attorneys or ag is listed, no name will be printed.	ents. If no name			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or car	tegories (will not be printed on the patent)	☐ individual ☐ corporation or other private group entity ☐ governm			
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.				
∪ Publication Fee	☐ Payment by credit card.	☐ Payment by credit card. Form PTO-2038 is attached.			
□ Advance Order - # of Copies	U The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).				
Commissioner for Patents is requested to apply the Is	ssue Fee and Publication Fee (if any) or to re-	e-apply any previously paid issue fee to the application identified above.			
(Authorized Signature)	(Date)				

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D C. 20231 www.uspto.gov

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09/574,519	0	05/18/2000	Eric Henderson	7164.01 8198 EXAMINER	
25934	7590	05/14/2002			
DORSEY & V 801 GRAND, S	·			FREDMAN, JEFFR	EY NORMAN
DES MOINES,		,		ART UNIT PAPER NUMBER	
				1637	
				DATE MAILED: 05/14/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Notice of Allowability

Application No. **09/574,519**

Applicant(s)

Henderson et al

Examiner

Jeffrey Fredman

Art Unit 1637



The WAILING DATE of this communication appears on the cover sheet with the correspondence address-				
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. X This communication is responsive to April 22, 2002				
2. X The allowed claim(s) is/are <u>56-63, 65-85, and 89-92</u>				
3. X The drawings filed on May 18, 2000 are accepted by the Examiner.				
4. Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).				
a) 🗌 All b) 🗎 Some* c) 🗀 None of the:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received:				
5. 🛛 Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).				
(a) \square The translation of the foreign language provisional application has been received.				
6. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
8. CORRECTED DRAWINGS must be submitted.				
(a) 🗌 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) \square hereto or 2) \square to Paper No				
(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the examiner.				
(c) \square including changes required by the attached Examiner's Amendment/Comment or in the Office action of Paper No				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.				
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)				
1 ☐ Notice of References Cited (PTO-892) 2 ☐ Notice of Informal Patent Application (PTO-152)				
□ Notice of Draftsperson's Patent Drawing Review (PTO-948) 4 □ Interview Summary (PTO-413), Paper No				
☐ Information Disclosure Statement(s) (PTO-1449), Paper No(s) 6 ☒ Examiner's Amendment/Comment ☐ Examiner's Comment Regarding Requirement for Deposit of Biological 8 ☒ Examiner's Statement of Reasons for Allowance				
7 Li Examiner's Comment Regarding Requirement for Deposit of Biological 8 X Examiner's Statement of Reasons for Allowance Material				
9 Dther				

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Marks on May 13, 2002.

- 2. The application has been amended as follows:
- Nonelected Claims 86-88 have been cancelled without prejudice towards further prosecution.
- 3. The following is an examiner's statement of reasons for allowance: The claims are now drawn to molecular arrays with molecular deposition domains smaller than one micron in area which represent preselected locations. The cited prior art of Dontha, which is representative of much of the prior art, teaches deposition of molecules, but does not teach preselected location smaller than one micron for deposition. Other prior art such as Besemer, which teaches bioarray manufacture with preselected locations does not teach domains of less than one micron. In fact, no prior art teaches or suggests selection of preselected domains smaller than one micron. Therefore, the claimed invention is novel and unobvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jeffrey Fredman, Ph.D. whose telephone number is (703) 308-6568.

The examiner is normally in the office between the hours of 6:30 a.m. and 4:00 p.m., and

telephone calls either in the morning are most likely to find the examiner in the office.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Gary Benzion, can be reached on (703) 308-1119.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Technology Center 1600 by

facsimile transmission via the P.T.O. Fax Center located in Crystal Mall 1. The CM1 Fax Center

numbers for Technology Center 1600 are either (703) 305-3014 or (703) 308-4242. Please note

that the faxing of such papers must conform with the Notice to Comply published in the Official

Gazette, 1096 OG 30 (November 15, 1989).

Jeffrey Fredman Primary Patent Examiner

Art Unit 1637

May 13, 2002